

Refine Search

Search Results -

| Terms | Documents |
|----------------------|-----------|
| agrobacter\$ and L10 | 559 |

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 US OCR Full-Text Database
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 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

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|------------|-----------------------------------|------|------------|
| <u>L11</u> | agrobacter\$ and L10 | 559 | <u>L11</u> |
| <u>L10</u> | (transgen\$ or Transfor\$) and L9 | 565 | <u>L10</u> |
| <u>L9</u> | glyphosate and L8 | 566 | <u>L9</u> |
| <u>L8</u> | kanamycin and L7 | 1744 | <u>L8</u> |
| <u>L7</u> | (cotton or soybean) and embryo | 4224 | <u>L7</u> |
| <u>L6</u> | kanamycin and L5 | 1426 | <u>L6</u> |
| <u>L5</u> | embry\$ and cotton | 3331 | <u>L5</u> |
| <u>L4</u> | embry\$ and soybean | 4176 | <u>L4</u> |
| <u>L3</u> | cotton and 11 | 1572 | <u>L3</u> |
| <u>L2</u> | soybean and L1 | 2168 | <u>L2</u> |
| <u>L1</u> | cotyledo\$ | 3451 | <u>L1</u> |

END OF SEARCH HISTORY

L8 *✓*

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=> s embryo
L1 437553 EMBRYO

=> s (cotton or soybean) and 11
L2 3356 (COTTON OR SOYBEAN) AND L1

=> s kanamycin and 12
L3 41 KANAMYCIN AND L2

=> dup rem 13
PROCESSING COMPLETED FOR L3
L4 23 DUP REM L3 (18 DUPLICATES REMOVED)

=> d 1-23

L4 ANSWER 1 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
AN 2004:68509 CAPLUS
TI A simple and rapid *Agrobacterium*-mediated transformation protocol for
cotton (*Gossypium hirsutum* L.): Embryogenic calli as a source to
generate large numbers of transgenic plants
AU Leelavathi, S.; Sunnichan, V. G.; Kumria, R.; Vijaykanth, G. P.;
Bhatnagar, R. K.; Reddy, V. S.
CS International Center for Genetic Engineering and Biotechnology, New Delhi,
110 067, India
SO Plant Cell Reports (2004), 22(7), 465-470
CODEN: PCRPD8; ISSN: 0721-7714
PB Springer-Verlag
DT Journal
LA English
RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2
AN 2003:487940 CAPLUS
DN 139:302560
TI Slow desiccation leads to high-frequency shoot recovery from transformed
somatic embryos of cotton (*Gossypium hirsutum* L. cv.
Coker 310 FR)
AU Chaudhary, B.; Kumar, S.; Prasad, K. V. S. K.; Oinam, G. S.; Burma, P. K.;
Pental, D.
CS Department of Genetics, University of Delhi South Campus, New Delhi,
110021, India
SO Plant Cell Reports (2003), 21(10), 955-960
CODEN: PCRPD8; ISSN: 0721-7714
PB Springer-Verlag
DT Journal
LA English

RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3
AN 2003:140499 CAPLUS
DN 138:363440
TI Obtaining high pest-resistant upland **cotton** cultivars
carrying cry 1Ac3 gene driven by chimeric OM promoter
AU Chen, Wanxin; Xiao, Guifang; Zhu, Zhen
CS Institute of Genetics and Developmental Biology, The Chinese Academy of
Sciences, Beijing, 100101, Peop. Rep. China
SO Acta Botanica Sinica (2002), 44(8), 963-970
CODEN: ABSCG9; ISSN: 1672-6650
PB Science Press
DT Journal
LA English

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 4
AN 2002:450634 CAPLUS
DN 137:380599
TI Transient expression of β -glucuronidase in **embryo** axes of
cotton by Agrobacterium and particle bombardment methods
AU Banerjee, A. K.; Agrawal, D. C.; Nalawade, S. M.; Krishnamurthy, K. V.
CS Plant Tissue Culture Division, National Chemical Laboratory, Pune, 411
008, India
SO Biologia Plantarum (2002), 45(3), 359-365
CODEN: BPABAJ; ISSN: 0006-3134
PB Institute of Experimental Botany, Academy of Sciences of the Czech
Republic
DT Journal
LA English

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 5
AN 2001:743517 CAPLUS
DN 135:354139
TI Effects of **kanamycin** on tissue culture and somatic embryogenesis
in **cotton**
AU Zhang, Bao-Hong; Liu, Fang; Liu, Zhi-Hong; Wang, Hong-Mei; Yao, Chang-Bing
CS Key Laboratory of Cotton Genetic Improvement of the Ministry of
Agriculture, Cotton Research Institute, Chinese Academy of Agricultural
Sciences, Henan, 455112, Peop. Rep. China
SO Plant Growth Regulation (2001), 33(2), 137-149
CODEN: PGRED3; ISSN: 0167-6903
PB Kluwer Academic Publishers
DT Journal
LA English

RE.CNT 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:493698 CAPLUS
DN 133:100462
TI **Soybean** transformation method omitting callus culture
IN Williams, Edward J.; Emler, Carol A.; Julson, Lori S.; Martinell, Brian
J.; McCabe, Dennis E.; Huang, Yong
PA Monsanto Co., USA
SO PCT Int. Appl., 21 pp.
CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | WO 2000042207 | A2 | 20000720 | WO 2000-US791 | 20000112 |
| | W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| | RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| | CA 2359868 | AA | 20000720 | CA 2000-2359868 | 20000112 |
| | EP 1141346 | A2 | 20011010 | EP 2000-906905 | 20000112 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| | BR 2000007815 | A | 20011106 | BR 2000-7815 | 20000112 |
| | JP 2002534129 | T2 | 20021015 | JP 2000-593764 | 20000112 |
| | US 6384301 | B1 | 20020507 | US 2000-483472 | 20000114 |
| | ZA 2001005743 | A | 20021014 | ZA 2001-5743 | 20010712 |
| | US 2002157139 | A1 | 20021024 | US 2001-29374 | 20011220 |
| PRAI | US 1999-115833P | P | 19990114 | | |
| | WO 2000-US791 | W | 20000112 | | |
| | US 2000-483472 | A1 | 20000114 | | |

L4 ANSWER 7 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:279722 CAPLUS

DN 134:261832

TI **Soybean** pollen tube transformation method and its use for selecting better species in plant breeding

IN Liu, Depu; Yuan, Ying; Zhou, Zhengping; Wang, Chengwu; Zheng, Peihe; Wang, Bingshu; Wang, Xingzhi; Tang, Kexuan

PA Jilin Academy of Agriculture, Peop. Rep. China

SO Faming Zhanli Shenqing Gongkai Shuomingshu, 9 pp.

CODEN: CNXXEV

DT Patent

LA Chinese

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|------|----------|-----------------|----------|
| PI | CN 1251862 | A | 20000503 | CN 1999-123707 | 19991116 |
| PRAI | CN 1999-123707 | | 19991116 | | |

L4 ANSWER 8 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:793293 CAPLUS

TI Effects of antibiotic **kanamycin** on **cotton** tissue culture and somatic embryogenesis.

AU Zhang, Bao-Hong; Liu, Fang; Liu, Zhi-Hong; Wang, Hong-Mei; Yao, Chang-Bing
CS Cotton Research Institute, Chinese Academy of Agricultural Sciences, Anyang, Peop. Rep. China

SO Abstracts of Papers, 220th ACS National Meeting, Washington, DC, United States, August 20-24, 2000 (2000) AGRO-106

CODEN: 69FZC3

PB American Chemical Society

DT Journal; Meeting Abstract

LA English

L4 ANSWER 9 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 6

AN 1999:553878 CAPLUS

DN 132:59757
TI Obtaining a transgenic upland **cotton** harboring two insecticidal genes
AU Wang, Wei; Zhu, Zhen; Gao, Yue-Feng; Shi, Chun-Lin; Chen, Wan-Xin; Guo, Zhong-Chen; Li, Xiang-Hui
CS Institute of Genetics, The Chinese Academy of Sciences, Beijing, 100101, Peop. Rep. China
SO Zhiwu Xuebao (1999), 41(4), 384-388
CODEN: CHWHAY; ISSN: 0577-7496
PB Kexue Chubanshe
DT Journal
LA Chinese

L4 ANSWER 10 OF 23 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
AN 1999:505947 BIOSIS
DN PREV199900505947
TI Insertion of the maize transposable element Ac into **soybean** (*Glycine max* L. Merr.) by Agrobacterium mediated transformation method.
AU Aljanabi, S. M.; Shibli, R.; Ajlouni, M. [Reprint author]
CS Biotechnology Department, Mauritius Sugar Industry Research Institute, Reduit, Mauritius
SO Dirasat Agricultural Sciences, (May, 1999) Vol. 26, No. 2, pp. 226-239.
print.
ISSN: 1026-3764.
DT Article
LA English
ED Entered STN: 3 Dec 1999
Last Updated on STN: 3 Dec 1999

L4 ANSWER 11 OF 23 CABA COPYRIGHT 2004 CABI on STN
AN 1999:123302 CABA
DN 19991609073
TI The effect of **kanamycin** on the growth and development of **cotton** embryogenic callus
AU Liu Fang; Zhang BaoHong; Yao ChangBing; Wang HongMei; Liu, F.; Zhang, B. H.; Yao, C. B.; Wang, H. M.
CS Cotton Research Institute, CAAS, Anyang 455112, Henan, China.
SO Acta Gossypii Sinica, (1999) Vol. 11, No. 2, pp. 70-72. 7 ref.
DT Journal
LA Chinese
SL English
ED Entered STN: 19990908
Last Updated on STN: 19990908

L4 ANSWER 12 OF 23 CABA COPYRIGHT 2004 CABI on STN
AN 94:103187 CABA
DN 19941608351
TI Binary vector mediated transformation of **soybean**
AU Lee, W. B.; Komatsuda, T.
CS Northeast Agricultural University, Harbin, Heilongjiang, China.
SO Soybean Genetics Newsletter, (1994) Vol. 21, pp. 87-91. 6 ref.
DT Journal
LA English
ED Entered STN: 19941101
Last Updated on STN: 19941101

L4 ANSWER 13 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 7
AN 1994:623148 CAPLUS
DN 121:223148
TI 2,4-D resistant transgenic **cotton** plants produced by Agrobacterium-mediated gene transfer

AU Chen, Zhixian; Llewellyn, Danny J.; Fan, Yunliu; Li, Shujun; Guo, Sanduei; Jiao, gaili; Zhao, Junxia
CS Inst. Cotton; Shanxi Acad. Agric. Sci., Yuncheng, 044000, Peop. Rep. China
SO Zhongguo Nongye Kexue (Beijing, China) (1994), 27(2), 31-7
CODEN: CKNYAR; ISSN: 0578-1752
DT Journal
LA Chinese

L4 ANSWER 14 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1993:642288 CAPLUS
DN 119:242288
TI Cloning of **soybean** promoter fragments and expression in transformed *Glycyrrhiza uralensis* Fisch
AU Dong, Jinlan; Li, Hongquan; Qiao, Jingbo; Li, Hongwei; Liu, Guoping; Li, Jilin
CS Dep. Biol., Harbin Normal Univ., 150080, Peop. Rep. China
SO Yichuan Xuebao (1993), 20(3), 245-52
CODEN: ICHPCG; ISSN: 0379-4172
DT Journal
LA Chinese

L4 ANSWER 15 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1991:179638 CAPLUS
DN 114:179638
TI Production of genetically transformed soya cell clones by means of protoplast electroporation
AU Kuchuk, N. V.; Shakhovskii, A. M.; Komarnitskii, I. K.; Gleba, Yu. Yu.
CS N. G. Kholodnyi Inst. Bot., Kiev, 252601, USSR
SO Biotehnologiya (1990), (5), 30-1
CODEN: BTKNEZ; ISSN: 0234-2758
DT Journal
LA Russian

L4 ANSWER 16 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1990:117394 CAPLUS
DN 112:117394
TI Regeneration of, and transformation of, **cotton** callus
IN Rangan, Thirumale Srinivasa; Anderson, David Maurice; Rajasekaran, Kanniah; Grula, John William; Hudspeth, Richard Lorne; Yenofsky, Richard Lee
PA Phylogen, USA
SO PCT Int. Appl., 109 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|----------|
| PI | WO 8905344 | A1 | 19890615 | WO 1988-US4116 | 19881116 |
| | W: AU, JP, KR, SD, SU | | | | |
| | RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE | | | | |
| | IL 104845 | A1 | 19980816 | IL 1988-104845 | 19881102 |
| | AU 8929266 | A1 | 19890705 | AU 1989-29266 | 19881116 |
| | AU 632038 | B2 | 19921217 | | |
| | BR 8806136 | A | 19890815 | BR 1988-6136 | 19881116 |
| | ZA 8808550 | A | 19890830 | ZA 1988-8550 | 19881116 |
| | EP 344302 | A1 | 19891206 | EP 1989-901415 | 19881116 |
| | EP 344302 | B1 | 19990331 | | |
| | R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE | | | | |
| | JP 02502253 | T2 | 19900726 | JP 1989-501312 | 19881116 |
| | ES 2016428 | A6 | 19901101 | ES 1988-3483 | 19881116 |
| | EP 899341 | A2 | 19990303 | EP 1998-118057 | 19881116 |

| | | | | |
|---|----|----------|----------------|----------|
| EP 899341 | A3 | 19990421 | | |
| R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE | | | | |
| AT 178353 | E | 19990415 | AT 1989-901415 | 19881116 |
| CA 1337406 | A1 | 19951024 | CA 1988-583523 | 19881118 |
| KR 9710757 | B1 | 19970630 | KR 1989-71350 | 19890715 |
| AU 9335284 | A1 | 19930520 | AU 1993-35284 | 19930316 |
| AU 668915 | B2 | 19960523 | | |
| JP 07000065 | A2 | 19950106 | JP 1993-214729 | 19930630 |
| JP 08004434 | B4 | 19960124 | | |
| CA 1335799 | A1 | 19950606 | CA 1994-616835 | 19940316 |
| US 6753463 | B1 | 20040622 | US 1994-336555 | 19941109 |
| US 5834292 | A | 19981110 | US 1995-436080 | 19950508 |
| US 5859321 | A | 19990112 | US 1995-438192 | 19950509 |
| US 5695999 | A | 19971209 | US 1995-476707 | 19950606 |
| US 5583036 | A | 19961210 | US 1995-486380 | 19950607 |
| US 5874662 | A | 19990223 | US 1995-475971 | 19950607 |
| US 6624344 | B1 | 20030923 | US 1995-480186 | 19950607 |
| US 6660914 | B1 | 20031209 | US 1995-487495 | 19950607 |
| AU 9664247 | A1 | 19961121 | AU 1996-64247 | 19960823 |
| AU 708250 | B2 | 19990729 | | |
| RU 2225882 | C2 | 20040320 | RU 1997-121926 | 19971230 |
| PRAI US 1987-122200 | A | 19871118 | | |
| IL 1988-88266 | A3 | 19881102 | | |
| EP 1989-901415 | A3 | 19881116 | | |
| WO 1988-US4116 | A | 19881116 | | |
| CA 1988-583523 | A3 | 19881118 | | |
| US 1991-680048 | A3 | 19910329 | | |
| US 1993-122090 | A1 | 19930914 | | |
| US 1993-122094 | B1 | 19930914 | | |
| US 1993-122351 | B1 | 19930914 | | |
| US 1993-122353 | B1 | 19930914 | | |
| US 1993-122793 | B1 | 19930914 | | |
| US 1994-336555 | A1 | 19941109 | | |
| US 1995-436080 | A1 | 19950508 | | |

L4 ANSWER 17 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1989:472528 CAPLUS

DN 111:72528

TI Particle-mediated genetic transformation of **soybean**

IN Christou, Paul; McCabe, Dennis; Swain, William F.; Barton, Kenneth A.

PA AGRACETUS, USA

SO Eur. Pat. Appl., 26 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 3

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|----------------|------|----------|-----------------|----------|
| PI | EP 301749 | A2 | 19890201 | EP 1988-306613 | 19880720 |
| | EP 301749 | A3 | 19901128 | | |
| | EP 301749 | B1 | 19940302 | | |
| R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE | | | | | |
| | US 5015580 | A | 19910514 | US 1988-193357 | 19880512 |
| | AT 102251 | E | 19940315 | AT 1988-306613 | 19880720 |
| | AU 8820196 | A1 | 19890202 | AU 1988-20196 | 19880729 |
| | AU 619196 | B2 | 19920123 | | |
| | CN 1030940 | A | 19890208 | CN 1988-104761 | 19880729 |
| | CN 1044919 | B | 19990901 | | |
| | JP 01080296 | A2 | 19890327 | JP 1988-190479 | 19880729 |
| PRAI | US 1987-79658 | A | 19870729 | | |
| | US 1988-193357 | A | 19880512 | | |
| | EP 1988-306613 | A | 19880720 | | |

L4 ANSWER 18 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1988:623989 CAPLUS
DN 109:223989
TI Genetic engineering of **cotton** plants and lines
IN Umbeck, Paul F.
PA AGRACETUS, USA
SO Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|------------------|----------|
| PI | EP 270355 | A2 | 19880608 | EP 1987-310611 | 19871202 |
| | EP 270355 | A3 | 19900704 | | |
| | EP 270355 | B1 | 19940316 | | |
| | R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE | | | | |
| | US 5004863 | A | 19910402 | US 1986-937384 | 19861203 |
| | US 5004863 | B2 | 20001017 | | |
| | IN 168950 | A | 19910720 | IN 1987-CA919 | 19871124 |
| | BR 8706530 | A | 19880712 | BR 1987-6530 | 19871202 |
| | AT 102999 | E | 19940415 | AT 1987-310611 | 19871202 |
| | ES 2052582 | T3 | 19940716 | ES 1987-310611 | 19871202 |
| | CN 87107233 | A | 19880824 | CN 1987-107233 | 19871203 |
| | US 5159135 | A | 19921027 | US 1990-575035 | 19900830 |
| | US 5159135 | B1 | 20001024 | | |
| | US 5004863 | B1 | 19921208 | US 1992-90002721 | 19920506 |
| PRAI | US 1986-937384 | A | 19861203 | | |
| | EP 1987-310611 | A | 19871202 | | |

L4 ANSWER 19 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 8
AN 1988:523535 CAPLUS
DN 109:123535
TI Stable transformation of **soybean** callus by DNA-coated gold
particles
AU Christou, Paul; McCabe, Dennis E.; Swain, William F.
CS Agracetus, Middleton, WI, 53562, USA
SO Plant Physiology (1988), 87(3), 671-4
CODEN: PLPHAY; ISSN: 0032-0889
DT Journal
LA English

L4 ANSWER 20 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1987:170182 CAPLUS
DN 106:170182
TI Genetically transformed **cotton** (*Gossypium hirsutum* L.) plants
AU Umbeck, Paul; Johnson, Gail; Barton, Ken; Swain, Will
CS Agracetus, Middleton, WI, 53562, USA
SO Bio/Technology (1987), 5(3), 263-6
CODEN: BTCHDA; ISSN: 0733-222X
DT Journal
LA English

L4 ANSWER 21 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 9
AN 1988:88857 CAPLUS
DN 108:88857
TI Transformation of **cotton** (*Gossypium hirsutum* L.) by
Agrobacterium tumefaciens and regeneration of transgenic plants
AU Firoozabady, Ebrahim; DeBoer, David L.; Merlo, Donald J.; Halk, Edward L.;
Amerson, Lorraine N.; Rashka, Kay E.; Murray, Elizabeth E.
CS Agrigenet. Adv. Sci. Co., Madison, WI, 53716, USA

SO Plant Molecular Biology (1987), 10(2), 105-16
 CODEN: PMBIDB; ISSN: 0167-4412
 DT Journal
 LA English
 L4 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1970:402658 CAPLUS
 DN 73:2658
 TI Antibiotic SF-701
 IN Shomura, Takashi; Tsuruoka, Takashi; Ezaki, Norio; Niwa, Tomizo; Niida, Taro
 PA Meiji Confectionary Co., Ltd.
 SO Jpn. Tokkyo Koho, 11 pp.
 CODEN: JAXXAD
 DT Patent
 LA Japanese
 FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------|------|----------|-----------------|----------|
| ----- | ---- | ----- | ----- | ----- |
| PI JP 45006878 | B4 | 19700309 | JP | 19671104 |

L4 ANSWER 23 OF 23 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.
 (2004) on STN
 AN 2004:15837 AGRICOLA
 DN IND43621626
 TI A simple and rapid Agrobacterium-mediated transformation protocol for cotton (*Gossypium hirsutum* L.): embryogenic calli as a source to generate large numbers of transgenic plants.
 AU Leelavathi, S.; Sunnichan, V.G.; Kumria, R.; Vijaykanth, G.P.; Bhatnagar, R.K.; Reddy, V.S.
 AV DNAL (QK725.P54)
 SO Plant cell reports, p. 465-470
 ISSN: 0721-7714
 NTE Includes references
 DT Article
 FS Non US
 LA English

=> d his

(FILE 'HOME' ENTERED AT 12:31:20 ON 05 NOV 2004)

FILE 'CAPLUS, CABA, AGRICOLA, BIOSIS' ENTERED AT 12:31:52 ON 05 NOV 2004
 L1 437553 S EMBRYO
 L2 3356 S (COTTON OR SOYBEAN) AND L1
 L3 41 S KANAMYCIN AND L2
 L4 23 DUP REM L3 (18 DUPLICATES REMOVED)

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(FILE 'HOME' ENTERED AT 12:31:20 ON 05 NOV 2004)

FILE 'CAPLUS, CABA, AGRICOLA, BIOSIS' ENTERED AT 12:31:52 ON 05 NOV 2004
 L1 437553 S EMBRYO
 L2 3356 S (COTTON OR SOYBEAN) AND L1
 L3 41 S KANAMYCIN AND L2
 L4 23 DUP REM L3 (18 DUPLICATES REMOVED)

=> s (transgen? or transfor?) and l2

L5 620 (TRANSGEN? OR TRANSFOR?) AND L2

=> s kanamycin and 15
L6 39 KANAMYCIN AND L5

=> dup rem 16
PROCESSING COMPLETED FOR L6
L7 21 DUP REM L6 (18 DUPLICATES REMOVED)

=> d 17 1-21 abs

L7 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
AB A protocol is presented for efficient **transformation** and regeneration of **cotton**. Embryogenic calli co-cultivated with *Agrobacterium* carrying *cry11a5* gene were cultured under dehydration stress and antibiotic selection for 3-6 wk to generate several **transgenic embryos**. An average of 75 globular **embryo** clusters were observed on selection plates and these **embryos** were cultured on multiplication medium followed by development of cotyledonary **embryos** on **embryo** maturation medium to obtain an average of 12 plants per Petri plate of co-cultivated callus. About 83% of these plants have been confirmed to be **transgenic** by Southern blot anal. An efficiency of ten **kanamycin**-resistant plants per Petri plate of co-cultivated embryogenic callus was obtained. The simplicity of the procedure and the efficiency of the initial material allow **transformation** of any variety where a single regenerating embryogenic callus line can be obtained. In addition, multiple **transformations** can be performed either simultaneously or sequentially. The method is extremely simple, reliable, efficient, and much less laborious than any other existing method for **cotton transformation**.

L7 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2
AB In *Agrobacterium*-mediated genetic **transformation** of **cotton** (*Gossypium hirsutum* L. cv. Coker 310FR) the frequency at which somatic **embryos** were converted to plantlets was significantly improved by subjecting the **embryos** to slow phys. desiccation. We used *Agrobacterium* strain GV3101 containing the binary vector pGSFR with the nos-nptII gene for in vitro selection and the 35S gus-int fragment as a reporter to optimize the **transformation** protocol. Although the concentration of **kanamycin** was reduced during embryogenesis and **embryo** maturation, even at the lower levels somatic **embryos** were predominantly abnormal, showing hypertrophy and reduced or fused cotyledons or poor radicle ends. A majority of these **embryos** (more than 75%) were β -glucuronidase (GUS)-pos. **Embryos** with an abnormal appearance showed a very poor conversion to plantlets. However, these **embryos**, when subjected to slow phys. desiccation followed by transfer to fresh medium, regenerated single or multiple shoots from the cotyledonary end. These shoots could be grafted on wild-type seedling stocks in vitro, which, following their transfer to soil, developed normally and set seeds. Regenerated plants tested pos. for the **transgene** by Southern anal. An overall scheme for the high-frequency production of **cotton transgenics** from both normal and abnormal appearing somatic **embryos** is presented.

L7 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3
AB Hypocotyl segments from aseptic seedlings of two important cultivars of upland **cotton** (*Gossypium hirsutum* L.) in Northwest China, "Xinluzao-1", "Jinmian-7", "Jinmian-12" and "Jihe-321" were **transformed** resp. by two efficient plant expression plasmids pBinMoBc and pBinoBc via *Agrobacterium tumefaciens*. In pBinMoBc, the

cry1Ac3 gene, which encodes the Bt toxin, is under the control of a chimeric OM promoter. In pBinoBc, it is under control of the CaMV 35S promoter. After co-cultivation with Agrobacterium tumefaciens LBA4404, kanamycin-resistant selection, somatic **embryos** were induced and regenerated plants were obtained. Then the regenerated plantlets were grafted to untransformed stocks to produce descendants. The integration of the cry1Ac3 gene and its expression in the T2 generation of **transgenic cotton** plants were confirmed by Southern hybridization and Western blotting. Insect bioassays indicated that **transgenic** plants of both constructions have significant resistance to larvae of **cotton** bollworm (*Heliothis armigera*). The OM promoter construct produced 2.2 times as much Bt toxin in **cotton** leaves as the CaMV construct. The cry1Ac3 gene driven by chimeric OM promoter could endue T2 generation **cotton** with high pest-resistant ability, exhibiting potential for use in genetic engineering to breed new pest-resistant **cotton** varieties.

L7 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 4
AB Transient expression of β -glucuronidase (GUS) in zygotic **embryo** axes of two **cotton** (*Gossypium hirsutum* L.) cultivars NHH-44 and DCH-32 was induced by Agrobacterium mediated **transformation** or by particle bombardment. For Agrobacterium **transformation**, disarmed *A. tumefaciens* strain GV 2260/p35SGUSINT was used. In cv. NHH-44, the maximum frequency of transient expression (14.28 %) was achieved on spotting Agrobacterium paste on the apical regions of the split **embryo** axes. The method resulted in a **transformed** callus line, which showed strong GUS activity. Integration of NPTII gene was confirmed by Southern anal. **Transgene** expression by particle bombardment was achieved with p35SGUSINT and pIBGUS plasmids independently. The maximum frequency of GUS expression in 29.16% explants was observed in cultivar NHH-44 with gold microcarriers (1.1 μ m) when bombarded once with rupture disk of 7586 kPa at target cell distance of 6 cm. A **transformed** callus line was obtained when explants were bombarded with p35SGUSINT and cultured on Murashige and Skoog's medium supplemented with B5 vitamins, 0.1 mg dm⁻³ 1-phenyl-3-(1,2,3-thiadiazol-5-yl) urea, 0.01 mg dm⁻³ α -naphthaleneacetic acid, 3 % glucose + 50 mg dm⁻³ **kanamycin**. High GUS activity was observed in callus tissue as well as in somatic **embryo** like structures achieved in liquid shake cultures.

L7 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 5
AB The aminoglycoside antibiotic **kanamycin** was evaluated for its effects on callus initiation from hypocotyl and cotyledon explants, proliferation of non-embryogenic and embryogenic calli, initiation and development of somatic **embryos** in **cotton** (*Gossypium hirsutum* L.). On this basis, the potential use of **kanamycin** as a selective agent in genetic **transformation** with the neomycin phosphotransferase II gene as the selective marker gene was evaluated. **Cotton** cotyledon and hypocotyl explants, and embryogenic calluses were highly sensitive to **kanamycin**. **Kanamycin** at 10 mg/L or higher concns. reduced callus formation, with complete inhibition at 60 mg/L. **Kanamycin** inhibited embryogenic callus growth and proliferation, as well as the initiation and development of **cotton** somatic **embryos**. The sensitivity of embryogenic callus and somatic **embryos** to **kanamycin** was different during the initiation and development stages. **Kanamycin** was considered as a suitable selective agent for **transformed** callus formation and growth of non-embryogenic callus. Forty to sixty mg/L was the optimal **kanamycin** concentration for the induction and proliferation of **transformed** callus. The concentration of **kanamycin** must be increased (from 50 to 200 mg/L) for the selection of **transformation** embryogenic callus and somatic **embryos**.

A scheme for selection of **transgenic cotton** plants when **kanamycin** is used as the selection agent is discussed.

- L7 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
AB A method is disclosed for the Agrobacterium -mediated germline genetic transformation of **soybean**. The method is based on Agrobacterium -mediated gene delivery to individual cells in a freshly germinated **soybean** meristem, which cells can be induced directly to form shoots that give rise to **transgenic** plants. This method does not involve callus-phase tissue culture and is rapid and efficient.
- L7 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
AB The present invention relates to **soybean** pollen tube transformation method which can be used for selecting better species in plant breeding. The method comprises removing the petals from the fresh flower after pollination, cutting the stigma from pistils near the ovary, dropping the DNA solution into the pollen tubes, and culturing the **embryo** in media or selecting the seeds for **transgenic soybeans**. The Bar gene or NptII gene for Basta or **kanamycin** resistance can be used as selecting markers.
- L7 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
AB Aminoglycoside antibiotic **kanamycin** was evaluated for its effects on callus initiation from hypocotyl and cotyledon explants, proliferation of nonembryogenic and embryogenic calli, differentiation and development of somatic **embryos** in **cotton** (*Gossypium hirsutum L.*). On this basis, potential use of **kanamycin** as a selective agent in genetic transformation with the neomycin phosphotransferase II gene as the selective marker gene was evaluated. **Cotton** cotyledon and hypocotyl explants, and embryogenic callus were highly sensitive to **kanamycin**. **Kanamycin** at 10 mg/L or higher concns. reduced callus formation, and with complete inhibition at 60 mg/L. **Kanamycin** inhibited embryogenic callus growth and proliferation, as well as differentiation and development of **cotton** somatic **embryos**. The sensitivity of embryogenic callus and somatic **embryos** to **kanamycin** were different during differentiational and developmental stage. **Kanamycin** was considered as a suitable selective agent for transformed callus formation and growth of nonembryogenic callus. 50 mg/L was the optimal **kanamycin** concentration for the induction and proliferation of transformed callus. The concentration of **Kanamycin** must be increased for the selection of transformation embryogenic callus and somatic **embryos**.

- L7 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 6
AB PBinLK carried two insecticidal genes, pea lectin (P-Lec) gene and **soybean** Kunitz trypsin inhibitor (SKTI) gene, were successfully transferred into 4 upland **cotton** (*Gossypium hirsutum L.*) cultivars, "Xinluzao-1", "Xinluzhong-2", "Jihe-321" and "Liao-9" via Agrobacterium-mediated transformation. Hypocotyl segments from aseptic seedlings were used as recipient. After co-cultivation of hypocotyl segments with *A. tumefaciens* (Smith et Townsend) Conn, **kanamycin**-resistant calli were screened, and somatic **embryos** and regenerated plants were obtained through various media. **Transgenic cotton** plants harboring two insecticidal genes were confirmed by NPT-II ELISA, PCR and PCR Southern. The results of bioassay demonstrated that the **transgenic** plants showed significant resistance to the larvae of **cotton** bollworm (*Heliothis armigera* Hubner).

- L7 ANSWER 10 OF 21 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN

AB The maize transposable element Ac (Activator) was introduced into soybean plants using Agrobacterium tumefaciens T-DNA. Cotyledons were inoculated with Agrobacterium tumefaciens strain A281 harboring the binary vectors pZAC1 and pZAC1/R (containing the NPTII (neomycin phosphotransferase II) gene, beta-Glucuronidase gene, and the Ac maize transposable element). The method of **transformation** does not require intermediate callus formation steps; instead, it involves inoculation of the **embryo** axis attachment to the cotyledons which later produced multiple shoots. Identification of R0 plants carrying the Ac element was done by Polymerase Chain Reaction (PCR) amplification of an internal fragment of the Ac sequence. The PCR assay indicated the presence of the Ac element in the **soybean** R0 genome. Southern blot analysis of the genomic DNA isolated from R1 plants indicated integration and sexual transmission of the whole transferred DNA (NPTII, 35S promoter, Ac element, Nos-P, Nos-T, and GUS gene) into the **soybean** genome. The percentage of **transformation** was 24% (with pZAC1), and 10% (with pZAC1/R) of the regenerated plants that survived several cycles of **kanamycin** selection. Based on GUS assay, the Ac element was found to be relatively active in some of the **soybean** R1 plants. Blue sectors were detected in two individual **transformed** plants. Detection of GUS activity in some of the leaf tissue of the R1 **transgenic** plants indicated excision of the Ac element from the untranslated leader sequence of the GUS gene. The Ac element followed a Mendelian pattern of inheritance, segregating in a 3:1 ratio in R1 progeny.

L7 ANSWER 11 OF 21 CABA COPYRIGHT 2004 CABI on STN
AB **Embryos** of soyabean genotypes Peking 501, American Jellow, Kou 502 (Masshokutou) and Bominori were excised from immature seeds and cultured in vitro. Explants undergoing embryogenesis or organogenesis were cocultivated for 1 day with either EHA101/PSAOR1221 or LBA4404/PTRA415 vectors. PSAOR1221 is a binary Ti plasmid containing the [beta]-glucuronidase (GUS) gene driven by the CaMV 35S promoter. PTRA415 harbours a tobacco PR1a protein gene which is induced by stress or chemicals. Following selection on **kanamycin**-containing medium and GUS assays of regenerants, **transformants** were only identified from the EHA101/PSAOR1221 treatment (0-5.4% **transformants** via embryogenesis and 4-12.2% via organogenesis).

L7 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 7
AB Hypocotyl segments from 5-6 day old seedlings of *Gossypium hirsutum* cv. Jin 7 were co-cultivated with Agrobacterium tumefaciens strain AGLI 17-2 containing a binary vector pGA470(35S-GUS-nos3'/35S-tfdA-Nos3'). **Transformed kanamycin**-resistant calli were selected on MS medium containing 0.1 mg/L 2,4-D, 0.1 mg/L kinetin, 50 Mg/L **kanamycin** and 500 mg/L cefotaxime for 2 mo, then numbered and tested for GUS activity after 3 mo. Selected GUS pos. calli were cultured on **embryo** introduction medium (MS + 1.9 g/L KNO3) until globular **embryos** developed and germinated. Plantlets were developed from these **embryos** over the next 2-3 mo. Plantlets were analyzed for NPT II and GUS activity. Eighty-seven percent of plantlets examined expressed the NPT II and GUS. Histochem. assays revealed strong GUS reactions in roots, stems and leaves of **transgenic** plants. Southern hybridization confirmed the presence of the tfdA gene in the genome of the **transgenic** plants. R1 **cotton** plants were sprayed with different concns. (25-800 ppm) of 2,4-D. All GUS pos. plants proved to be resistant to 2,4-D.

L7 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
AB DNA fragments, BamHI and HindIII double digested, from **soybean** have been ligated to the upstream of promoter-less GUS gene of pB1101 vector. The recombinant plasmids containing different DNA fragments of

soybean were constructed, and **transformed** to *E. coli* C600. The recombinant plasmids were transferred into *A. rhizogenes* R1000(pRiA4b) by triparental mating method and the transferants were used to infect the **embryo** axis, stems and other explants from *G. uralensis* Fisch by injection. Hairy roots appeared from cultures on hormone-free MS medium with 1 mg/mL cb and regenerated into plants. The **transformed** *B. uralensis* Fisch had resistance to **Kanamycin** and contained mannopine and agropine. In histochem. assay, blue ppts. were found in leaves, stems, and hairy roots of **transformed** plants C13 and C2. Thus, **soybean** promoter controlled the GUS gene. Inserted fragments of **soybean** DNA in C2 and C13 were .apprx.0.8kb. DNA-DNA hybridization confirmed that the DNA in recombinant plasmids is homol. with both the DNA in **soybean** and **transformed** *G. uralensis* plant.

- L7 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
AB Protoplasts isolated from immature **soybean embryos** 2-3 wk after flowering were **transformed** by plasmid pGA472, DNA containing the gene for neomycin phosphotransferase under control of nopaline synthase gene promoter by electroporatin. Approx. 50% of the protoplasts remained viable and were transferred to petri dishes. After 3 wk incubation in the presence of the hormone 6-benzylaminopurine and naphthylacetic acid, **transformants** were selected by growth on **kanamycin**. Neomycin phosphotransferase activity was measured and plasmid DNA was recovered, thus, verifying **transformation**.
- L7 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
AB Medium, plant hormone, and illumination regimens are described for the regeneration of **cotton** plants from callus via somatic **embryos**. **Transformation** of **cotton** callus with Agrobacterium and suitable vectors are also described. Somaclonal variants were generated with improved resistance to *Verticillium* wilt or **kanamycin** (as a model herbicide), or with improved raw **cotton** fiber properties. Callus cultures were **transformed** to show resistance to glyphosate by expression of a bacterial gene or to express *Bacillus thuringiensis* δ-endotoxin genes.
- L7 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
AB A method and apparatus are disclosed for the genetic **transformation** of regenerable **soybean** tissues by coating foreign DNA on carrier particles and phys. accelerating them into the plant tissues. Some of the seeds from the regenerated plants will contain the foreign DNA in their genome. A quantity of 1-3 μm gold spherical beads for use as carrier particles were precoated with polylysine and then used to adsorb pCMC1022 DNA, which contained a gene for **kanamycin** resistance. Zygotic **embryos** from **soybean** plants were placed on a surface and then exposed to accelerated gold beads containing pCMC1022. The **embryos** so treated were grown into plantlets and then analyzed for the presence of aminoglycoside-3-phosphotransferase II (specifying **kanamycin** resistance). Resultant whole plants were subsequently analyzed for the presence of pCMC1022 DNA by the Southern hybridization technique.
- L7 ANSWER 17 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
AB A method for preparation of **transgenic** **cotton** plants comprises Agrobacterium-mediated **transformation** of **cotton** cells, induction of somatic embryogenesis of **transformed** cells, and regeneration of plants. *Gossypium hirsutum* seeds were surface-sterilized, germinated, and hypocotyl explants were removed. The explants were placed on an agar medium and inoculated with *A. tumefaciens* containing a binary Ti plasmid system, one of which encoded neomycin phosphotransferase II (NPT-II). After 3-5 days, the tissues were

transferred to Murashige-Skoog medium containing 2,4-D and 6-furfurylaminopurine and **kanamycin**. After 3-4 mo, individual cells were maintained on selection medium for tissue amplification, and the **transformed** cells were incubated another 2-3 mo for somatic **embryo** formation. Plants with NPT-II activity were regenerated from these tissues.

- L7 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 8
AB Immature **soybean** (*Glycine max*) **embryos** from com. important cultivars were the targets of rapidly accelerated, DNA-coated, gold particles. Protoplasts were prepared from these tissues and propagated in culture under selection conditions for the introduced neomycin phosphotransferase II gene. **Kanamycin**-resistant calli were obtained at a rate of approx. 10-5. Enzyme assays and Southern blot hybridization confirmed the expression of the foreign gene and its stable integration into the **soybean** genome. Particle acceleration can be used for the introduction of foreign DNA into the **soybean** genome. This technique may be useful in the recovery of engineered plants by **transformation** of regenerable tissues.
- L7 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
AB Genetically engineered plants of com. **cotton** varieties were obtained by Agrobacterium-mediated **transformation**. Inoculated tissues selected on **kanamycin** [8063-07-8]-containing medium gave rise to **transformed** calli that are resistant to the antibiotic and expressed the neomycin phosphotransferase [62213-36-9] enzyme. Amplified tissues were plated onto hormone-free medium to promote embryogenesis. Somatic **embryos** germinated, and whole plants also expressed the marker enzyme.
- L7 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 9
AB **Cotton** cotyledon tissues were efficiently **transformed**, and plants were regenerated. Cotyledon pieces from 12-day-old aseptically germinated seedlings were inoculated with *A. tumefaciens* strains containing avirulent Ti (tumor-inducing) plasmids with a chimeric gene encoding **kanamycin** resistance. After 3 days cocultivation, the cotyledon pieces were placed on a callus initiation medium containing **kanamycin** for selection. High frequencies of **transformed** **kanamycin**-resistant calli were produced, >80% of which were induced to form somatic **embryos**. Somatic **embryos** were germinated, and plants were regenerated and transferred to soil. **Transformation** was confirmed by opine production, **kanamycin** resistance, immunoassay, and DNA blot hybridization. This process for producing **transgenic** **cotton** plants facilitates transfer of genes of economic importance to **cotton**.
- L7 ANSWER 21 OF 21 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN
AB A protocol is presented for efficient **transformation** and regeneration of **cotton**. Embryogenic calli co-cultivated with *Agrobacterium* carrying *cry1Ia5* gene were cultured under dehydration stress and antibiotic selection for 3-6 weeks to generate several **transgenic** **embryos**. An average of 75 globular **embryo** clusters were observed on selection plates and these **embryos** were cultured on multiplication medium followed by development of cotyledonary **embryos** on **embryo** maturation medium to obtain an average of 12 plants per Petri plate of co-cultivated callus. About 83% of these plants have been confirmed to be **transgenic** by Southern blot analysis. An efficiency of ten **kanamycin**-resistant plants per Petri plate of co-cultivated

embryogenic callus was obtained. The simplicity of the procedure and the efficiency of the initial material allow **transformation** of any variety where a single regenerating embryogenic callus line can be obtained. In addition, multiple **transformations** can be performed either simultaneously or sequentially. The method is extremely simple, reliable, efficient, and much less laborious than any other existing method for **cotton transformation**.

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L7 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
ACCESSION NUMBER: 2004:68509 CAPLUS
TITLE: A simple and rapid *Agrobacterium*-mediated
transformation protocol for **cotton**
(*Gossypium hirsutum* L.): Embryogenic calli as a source
to generate large numbers of **transgenic**
plants
AUTHOR(S): Leelavathi, S.; Sunnichan, V. G.; Kumria, R.;
Vijaykanth, G. P.; Bhatnagar, R. K.; Reddy, V. S.
CORPORATE SOURCE: International Center for Genetic Engineering and
Biotechnology, New Delhi, 110 067, India
SOURCE: Plant Cell Reports (2004), 22(7), 465-470
CODEN: PCRPD8; ISSN: 0721-7714
PUBLISHER: Springer-Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2
ACCESSION NUMBER: 2003:487940 CAPLUS
DOCUMENT NUMBER: 139:302560
TITLE: Slow desiccation leads to high-frequency shoot
recovery from **transformed** somatic
embryos of **cotton** (*Gossypium*
hirsutum L. cv. Coker 310 FR)
AUTHOR(S): Chaudhary, B.; Kumar, S.; Prasad, K. V. S. K.; Oinam,
G. S.; Burma, P. K.; Pental, D.
CORPORATE SOURCE: Department of Genetics, University of Delhi South
Campus, New Delhi, 110021, India
SOURCE: Plant Cell Reports (2003), 21(10), 955-960
CODEN: PCRPD8; ISSN: 0721-7714
PUBLISHER: Springer-Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3
ACCESSION NUMBER: 2003:140499 CAPLUS
DOCUMENT NUMBER: 138:363440
TITLE: Obtaining high pest-resistant **transgenic**
upland **cotton** cultivars carrying *cry 1Ac3*
gene driven by chimeric OM promoter
AUTHOR(S): Chen, Wanxin; Xiao, Guifang; Zhu, Zhen
CORPORATE SOURCE: Institute of Genetics and Developmental Biology, The
Chinese Academy of Sciences, Beijing, 100101, Peop.
Rep. China
SOURCE: *Acta Botanica Sinica* (2002), 44(8), 963-970
CODEN: ABSCG9; ISSN: 1672-6650
PUBLISHER: Science Press

DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 4
ACCESSION NUMBER: 2002:450634 CAPLUS
DOCUMENT NUMBER: 137:380599
TITLE: Transient expression of β -glucuronidase in **embryo** axes of **cotton** by Agrobacterium and particle bombardment methods
AUTHOR(S): Banerjee, A. K.; Agrawal, D. C.; Nalawade, S. M.; Krishnamurthy, K. V.
CORPORATE SOURCE: Plant Tissue Culture Division, National Chemical Laboratory, Pune, 411 008, India
SOURCE: Biologia Plantarum (2002), 45(3), 359-365
CODEN: BPABAJ; ISSN: 0006-3134
PUBLISHER: Institute of Experimental Botany, Academy of Sciences of the Czech Republic
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 5
ACCESSION NUMBER: 2001:743517 CAPLUS
DOCUMENT NUMBER: 135:354139
TITLE: Effects of **kanamycin** on tissue culture and somatic embryogenesis in **cotton**
AUTHOR(S): Zhang, Bao-Hong; Liu, Fang; Liu, Zhi-Hong; Wang, Hong-Mei; Yao, Chang-Bing
CORPORATE SOURCE: Key Laboratory of Cotton Genetic Improvement of the Ministry of Agriculture, Cotton Research Institute, Chinese Academy of Agricultural Sciences, Henan, 455112, Peop. Rep. China
SOURCE: Plant Growth Regulation (2001), 33(2), 137-149
CODEN: PGRED3; ISSN: 0167-6903
PUBLISHER: Kluwer Academic Publishers
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2000:493698 CAPLUS
DOCUMENT NUMBER: 133:100462
TITLE: **Soybean transformation** method omitting callus culture
INVENTOR(S): Williams, Edward J.; Emmer, Carol A.; Julson, Lori S.; Martinell, Brian J.; McCabe, Dennis E.; Huang, Yong
PATENT ASSIGNEE(S): Monsanto Co., USA
SOURCE: PCT Int. Appl., 21 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|-------|----------|-----------------|----------|
| ----- | ----- | ----- | ----- | ----- |
| WO 2000042207 | A2 | 20000720 | WO 2000-US791 | 20000112 |
| W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, | | | | |

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| CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, | IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, | MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, | SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, | BY, KG, KZ, MD, RU, TJ, TM |
| RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, | DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, | CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | |
| CA 2359868 AA 20000720 CA 2000-2359868 20000112 | EP 1141346 A2 20011010 EP 2000-906905 20000112 | | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, | IE, SI, LT, LV, FI, RO | | | |
| BR 2000007815 A 20011106 BR 2000-7815 20000112 | JP 2002534129 T2 20021015 JP 2000-593764 20000112 | US 6384301 B1 20020507 US 2000-483472 20000114 | ZA 2001005743 A 20021014 ZA 2001-5743 20010712 | US 2002157139 A1 20021024 US 2001-29374 20011220 |
| PRIORITY APPLN. INFO.: | | | | US 1999-115833P P 19990114 |
| | | | | WO 2000-US791 W 20000112 |
| | | | | US 2000-483472 A1 20000114 |

L7 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2001:279722 CAPLUS
 DOCUMENT NUMBER: 134:261832
 TITLE: **Soybean pollen tube transformation**
 method and its use for selecting better species in
 plant breeding
 INVENTOR(S): Liu, Depu; Yuan, Ying; Zhou, Zhengping; Wang, Chengwu;
 Zheng, Peihe; Wang, Bingshu; Wang, Xingzhi; Tang,
 Kexuan
 PATENT ASSIGNEE(S): Jilin Academy of Agriculture, Peop. Rep. China
 SOURCE: Faming Zhanli Shenqing Gongkai Shuomingshu, 9 pp.
 CODEN: CNXXEV
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|-------|----------|-----------------|----------|
| ----- | ----- | ----- | ----- | ----- |
| CN 1251862 | A | 20000503 | CN 1999-123707 | 19991116 |
| PRIORITY APPLN. INFO.: | | | CN 1999-123707 | 19991116 |

L7 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2000:793293 CAPLUS
 TITLE: Effects of antibiotic **kanamycin** on
cotton tissue culture and somatic
 embryogenesis.
 AUTHOR(S): Zhang, Bao-Hong; Liu, Fang; Liu, Zhi-Hong; Wang,
 Hong-Mei; Yao, Chang-Bing
 CORPORATE SOURCE: Cotton Research Institute, Chinese Academy of
 Agricultural Sciences, Anyang, Peop. Rep. China
 SOURCE: Abstracts of Papers, 220th ACS National Meeting,
 Washington, DC, United States, August 20-24, 2000
 (2000) AGRO-106
 CODEN: 69FZC3
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal; Meeting Abstract
 LANGUAGE: English

L7 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 6
 ACCESSION NUMBER: 1999:553878 CAPLUS

DOCUMENT NUMBER: 132:59757
TITLE: Obtaining a **transgenic** upland **cotton**
harboring two insecticidal genes
AUTHOR(S): Wang, Wei; Zhu, Zhen; Gao, Yue-Feng; Shi, Chun-Lin;
Chen, Wan-Xin; Guo, Zhong-Chen; Li, Xiang-Hui
CORPORATE SOURCE: Institute of Genetics, The Chinese Academy of
Sciences, Beijing, 100101, Peop. Rep. China
SOURCE: Zhiwu Xuebao (1999), 41(4), 384-388
CODEN: CHWHAY; ISSN: 0577-7496
PUBLISHER: Kexue Chubanshe
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

L7 ANSWER 10 OF 21 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on
STN
ACCESSION NUMBER: 1999:505947 BIOSIS
DOCUMENT NUMBER: PREV199900505947
TITLE: Insertion of the maize transposable element Ac into
soybean (*Glycine max* L. Merr.) by Agrobacterium
mediated **transformation** method.
AUTHOR(S): Aljanabi, S. M.; Shibli, R.; Ajlouni, M. [Reprint author]
CORPORATE SOURCE: Biotechnology Department, Mauritius Sugar Industry Research
Institute, Reduit, Mauritius
SOURCE: Dirasat Agricultural Sciences, (May, 1999) Vol. 26, No. 2,
pp. 226-239. print.
ISSN: 1026-3764.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 3 Dec 1999
Last Updated on STN: 3 Dec 1999

L7 ANSWER 11 OF 21 CABA COPYRIGHT 2004 CABI on STN
ACCESSION NUMBER: 94:103187 CABA
DOCUMENT NUMBER: 19941608351
TITLE: Binary vector mediated **transformation** of
soybean
AUTHOR: Lee, W. B.; Komatsuda, T.
CORPORATE SOURCE: Northeast Agricultural University, Harbin,
Heilongjiang, China.
SOURCE: Soybean Genetics Newsletter, (1994) Vol. 21, pp.
87-91. 6 ref.
DOCUMENT TYPE: Journal
LANGUAGE: English
ENTRY DATE: Entered STN: 19941101
Last Updated on STN: 19941101

L7 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 7
ACCESSION NUMBER: 1994:623148 CAPLUS
DOCUMENT NUMBER: 121:223148
TITLE: 2,4-D resistant **transgenic cotton**
plants produced by Agrobacterium-mediated gene
transfer
AUTHOR(S): Chen, Zhixian; Llewellyn, Danny J.; Fan, Yunliu; Li,
Shujun; Guo, Sanduei; Jiao, gaili; Zhao, Junxia
CORPORATE SOURCE: Inst. Cotton, Shanxi Acad. Agric. Sci., Yuncheng,
044000, Peop. Rep. China
SOURCE: Zhongguo Nongye Kexue (Beijing, China) (1994), 27(2),
31-7
CODEN: CKNYAR; ISSN: 0578-1752
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

L7 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1993:642288 CAPLUS
 DOCUMENT NUMBER: 119:242288
 TITLE: Cloning of **soybean** promoter fragments and
 expression in **transformed** *Glycyrrhiza*
 uralensis Fisch
 AUTHOR(S): Dong, Jinlan; Li, Hongquan; Qiao, Jingbo; Li, Hongwei;
 Liu, Guoping; Li, Jilin
 CORPORATE SOURCE: Dep. Biol., Harbin Normal Univ., 150080, Peop. Rep. -
 China
 SOURCE: Yichuan Xuebao (1993), 20(3), 245-52
 CODEN: ICHPCG; ISSN: 0379-4172
 DOCUMENT TYPE: Journal
 LANGUAGE: Chinese

L7 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1991:179638 CAPLUS
 DOCUMENT NUMBER: 114:179638
 TITLE: Production of genetically **transformed** soya
 cell clones by means of protoplast electroporation
 Kuchuk, N. V.; Shakhovskii, A. M.; Komarnitskii, I.
 K.; Gleba, Yu. Yu.
 CORPORATE SOURCE: N. G. Kholodnyi Inst. Bot., Kiev, 252601, USSR
 SOURCE: Biotekhnologiya (1990), (5), 30-1
 CODEN: BTKNEZ; ISSN: 0234-2758
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian

L7 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1990:117394 CAPLUS
 DOCUMENT NUMBER: 112:117394
 TITLE: Regeneration of, and **transformation** of,
 cotton callus
 INVENTOR(S): Rangan, Thirumale Srinivasa; Anderson, David Maurice;
 Rajasekaran, Kanniah; Grula, John William; Hudspeth,
 Richard Lorne; Yenofsky, Richard Lee
 PATENT ASSIGNEE(S): Phylogen, USA
 SOURCE: PCT Int. Appl., 109 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| WO 8905344 | A1 | 19890615 | WO 1988-US4116 | 19881116 |
| W: AU, JP, KR, SD, SU | | | | |
| RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE | | | | |
| IL 104845 | A1 | 19980816 | IL 1988-104845 | 19881102 |
| AU 8929266 | A1 | 19890705 | AU 1989-29266 | 19881116 |
| AU 632038 | B2 | 19921217 | | |
| BR 8806136 | A | 19890815 | BR 1988-6136 | 19881116 |
| ZA 8808550 | A | 19890830 | ZA 1988-8550 | 19881116 |
| EP 344302 | A1 | 19891206 | EP 1989-901415 | 19881116 |
| EP 344302 | B1 | 19990331 | | |
| R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE | | | | |
| JP 02502253 | T2 | 19900726 | JP 1989-501312 | 19881116 |
| ES 2016428 | A6 | 19901101 | ES 1988-3483 | 19881116 |
| EP 899341 | A2 | 19990303 | EP 1998-118057 | 19881116 |
| EP 899341 | A3 | 19990421 | | |
| R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE | | | | |

| | | | | |
|-------------|----|----------|----------------|-------------|
| AT 178353 | E | 19990415 | AT 1989-901415 | 19881116 |
| CA 1337406 | A1 | 19951024 | CA 1988-583523 | 19881118 |
| KR 9710757 | B1 | 19970630 | KR 1989-71350 | 19890715 |
| AU 9335284 | A1 | 19930520 | AU 1993-35284 | 19930316 |
| AU 668915 | B2 | 19960523 | | |
| JP 07000065 | A2 | 19950106 | JP 1993-214729 | 19930630 |
| JP 08004434 | B4 | 19960124 | | |
| CA 1335799 | A1 | 19950606 | CA 1994-616835 | 19940316 |
| US 6753463 | B1 | 20040622 | US 1994-336555 | 19941109 |
| US 5834292 | A | 19981110 | US 1995-436080 | 19950508 |
| US 5859321 | A | 19990112 | US 1995-438192 | 19950509 |
| US 5695999 | A | 19971209 | US 1995-476707 | 19950606 |
| US 5583036 | A | 19961210 | US 1995-486380 | 19950607 |
| US 5874662 | A | 19990223 | US 1995-475971 | 19950607 |
| US 6624344 | B1 | 20030923 | US 1995-480186 | 19950607 |
| US 6660914 | B1 | 20031209 | US 1995-487495 | 19950607 |
| AU 9664247 | A1 | 19961121 | AU 1996-64247 | 19960823 |
| AU 708250 | B2 | 19990729 | | |
| RU 2225882 | C2 | 20040320 | RU 1997-121926 | 19971230 |
| | | | US 1987-122200 | A 19871118 |
| | | | IL 1988-88266 | A3 19881102 |
| | | | EP 1989-901415 | A3 19881116 |
| | | | WO 1988-US4116 | A 19881116 |
| | | | CA 1988-583523 | A3 19881118 |
| | | | US 1991-680048 | A3 19910329 |
| | | | US 1993-122090 | A1 19930914 |
| | | | US 1993-122094 | B1 19930914 |
| | | | US 1993-122351 | B1 19930914 |
| | | | US 1993-122353 | B1 19930914 |
| | | | US 1993-122793 | B1 19930914 |
| | | | US 1994-336555 | A1 19941109 |
| | | | US 1995-436080 | A1 19950508 |

L7 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:472528 CAPLUS
DOCUMENT NUMBER: 111:72528
TITLE: Particle-mediated genetic transformation of
soybean
INVENTOR(S): Christou, Paul; McCabe, Dennis; Swain, William F.;
Barton, Kenneth A.
PATENT ASSIGNEE(S): AGRACETUS, USA
SOURCE: Eur. Pat. Appl., 26 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| EP 301749 | A2 | 19890201 | EP 1988-306613 | 19880720 |
| EP 301749 | A3 | 19901128 | | |
| EP 301749 | B1 | 19940302 | | |
| R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE | | | | |
| US 5015580 | A | 19910514 | US 1988-193357 | 19880512 |
| AT 102251 | E | 19940315 | AT 1988-306613 | 19880720 |
| AU 8820196 | A1 | 19890202 | AU 1988-20196 | 19880729 |
| AU 619196 | B2 | 19920123 | | |
| CN 1030940 | A | 19890208 | CN 1988-104761 | 19880729 |
| CN 1044919 | B | 19990901 | | |
| JP 01080296 | A2 | 19890327 | JP 1988-190479 | 19880729 |
| | | | US 1987-79658 | A 19870729 |

PRIORITY APPLN. INFO.:

US 1988-193357 A 19880512
EP 1988-306613 A 19880720

L7 ANSWER 17 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1988:623989 CAPLUS
DOCUMENT NUMBER: 109:223989
TITLE: Genetic engineering of **cotton** plants and lines
INVENTOR(S): Umbeck, Paul F.
PATENT ASSIGNEE(S): AGRACETUS, USA
SOURCE: Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|------------------|------------|
| EP 270355 | A2 | 19880608 | EP 1987-310611 | 19871202 |
| EP 270355 | A3 | 19900704 | | |
| EP 270355 | B1 | 19940316 | | |
| R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE | | | | |
| US 5004863 | A | 19910402 | US 1986-937384 | 19861203 |
| US 5004863 | B2 | 20001017 | | |
| IN 168950 | A | 19910720 | IN 1987-CA919 | 19871124 |
| BR 8706530 | A | 19880712 | BR 1987-6530 | 19871202 |
| AT 102999 | E | 19940415 | AT 1987-310611 | 19871202 |
| ES 2052582 | T3 | 19940716 | ES 1987-310611 | 19871202 |
| CN 87107233 | A | 19880824 | CN 1987-107233 | 19871203 |
| US 5159135 | A | 19921027 | US 1990-575035 | 19900830 |
| US 5159135 | B1 | 20001024 | | |
| US 5004863 | B1 | 19921208 | US 1992-90002721 | 19920506 |
| PRIORITY APPLN. INFO.: | | | US 1986-937384 | A 19861203 |
| | | | EP 1987-310611 | A 19871202 |

L7 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 8
ACCESSION NUMBER: 1988:523535 CAPLUS
DOCUMENT NUMBER: 109:123535
TITLE: Stable **transformation** of **soybean** callus by DNA-coated gold particles
AUTHOR(S): Christou, Paul; McCabe, Dennis E.; Swain, William F.
CORPORATE SOURCE: Agracetus, Middleton, WI, 53562, USA
SOURCE: Plant Physiology (1988), 87(3), 671-4
CODEN: PLPHAY; ISSN: 0032-0889
DOCUMENT TYPE: Journal
LANGUAGE: English

L7 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1987:170182 CAPLUS
DOCUMENT NUMBER: 106:170182
TITLE: Genetically **transformed cotton** (*Gossypium hirsutum* L.) plants
AUTHOR(S): Umbeck, Paul; Johnson, Gail; Barton, Ken; Swain, Will
CORPORATE SOURCE: Agracetus, Middleton, WI, 53562, USA
SOURCE: Bio/Technology (1987), 5(3), 263-6
CODEN: BTCHDA; ISSN: 0733-222X
DOCUMENT TYPE: Journal
LANGUAGE: English

L7 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 9
ACCESSION NUMBER: 1988:88857 CAPLUS

DOCUMENT NUMBER: 108:88857
TITLE: **Transformation of cotton**
(*Gossypium hirsutum L.*) by *Agrobacterium tumefaciens*
and regeneration of **transgenic** plants
AUTHOR(S): Firoozabady, Ebrahim; DeBoer, David L.; Merlo, Donald
J.; Halk, Edward L.; Amerson, Lorraine N.; Rashka, Kay
E.; Murray, Elizabeth E.
CORPORATE SOURCE: Agrigenet. Adv. Sci. Co., Madison, WI, 53716, USA
SOURCE: Plant Molecular Biology (1987), 10(2), 105-16
CODEN: PMBIDB; ISSN: 0167-4412
DOCUMENT TYPE: Journal
LANGUAGE: English

L7 ANSWER 21 OF 21 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.
(2004) on STN

ACCESSION NUMBER: 2004:15837 AGRICOLA
DOCUMENT NUMBER: IND43621626
TITLE: A simple and rapid *Agrobacterium*-mediated
transformation protocol for **cotton**
(*Gossypium hirsutum L.*): embryogenic calli as a source
to generate large numbers of **transgenic**
plants.
AUTHOR(S): Leelavathi, S.; Sunnichan, V.G.; Kumria, R.;
Vijaykanth, G.P.; Bhatnagar, R.K.; Reddy, V.S.
AVAILABILITY: DNAL (QK725.P54)
SOURCE: Plant cell reports, p. 465-470
ISSN: 0721-7714
NOTE: Includes references
DOCUMENT TYPE: Article
FILE SEGMENT: Non US
LANGUAGE: English

Refine Search

Search Results -

| Terms | Documents |
|---------------------|-----------|
| agrobacter\$ and L7 | 24 |

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L8

Search History

DATE: Friday, November 05, 2004 [Printable Copy](#) [Create Case](#)**Set Name** **Query**
side by side**Hit Count** **Set Name**
result set*DB=USPT; PLUR=YES; OP=OR*

| | | | |
|-----------|-----------------------------------|------|-----------|
| <u>L8</u> | agrobacter\$ and L7 | 24 | <u>L8</u> |
| <u>L7</u> | (transgen\$ or transfor\$) and L6 | 24 | <u>L7</u> |
| <u>L6</u> | glyphosate and L5 | 24 | <u>L6</u> |
| <u>L5</u> | cotyledon and L4 | 43 | <u>L5</u> |
| <u>L4</u> | kanamycin and L3 | 122 | <u>L4</u> |
| <u>L3</u> | embry\$ and L2 | 492 | <u>L3</u> |
| <u>L2</u> | (cotton or soybean)and L1 | 616 | <u>L2</u> |
| <u>L1</u> | germline | 2245 | <u>L1</u> |

END OF SEARCH HISTORY

Hit List

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|---------------|---------------------|-------|----------|-----------|
| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs |
| Generate OACS | | | | |

Search Results - Record(s) 1 through 10 of 24 returned.

1. Document ID: US 6787687 B1

L8: Entry 1 of 24

File: USPT

Sep 7, 2004

US-PAT-NO: 6787687

DOCUMENT-IDENTIFIER: US 6787687 B1

TITLE: Rin gene compositions and methods for use thereof

DATE-ISSUED: September 7, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------------|----------|-------|----------|---------|
| Giovannoni; James | Ithaca | NY | 14850 | |
| Tanksley; Steven | Ithaca | NY | 14850 | |
| Padmanabhan; Veeraragavan | Ankeny | IA | 50021 | |
| Ruezinsky; Diane | Woodland | CA | 95776 | |
| Vrebalov; Julie | Ithaca | NY | 14850 | |
| White; Ruth | Lansing | NY | 14882 | |

US-CL-CURRENT: 800/317.4, 435/320.1, 435/410, 435/411, 435/419, 435/423, 435/430,
435/469, 536/23.1, 536/23.2, 536/23.6, 800/260, 800/266, 800/278, 800/286,
800/287, 800/290, 800/292, 800/293, 800/294, 800/298

| | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMC | Drawn Ds |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|----------|

2. Document ID: US 6762347 B1

L8: Entry 2 of 24

File: USPT

Jul 13, 2004

US-PAT-NO: 6762347

DOCUMENT-IDENTIFIER: US 6762347 B1

TITLE: NOR gene compositions and methods for use thereof

DATE-ISSUED: July 13, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|--------|-------|----------|---------|
| Giovannoni; James | Ithaca | NY | 14850 | |
| Tanksley; Steven | Ithaca | NY | 14850 | |
| Vrebalov; Julia | Ithaca | NY | 14850 | |

Noensie, Frederick New York NY 10016

US-CL-CURRENT: 800/286; 435/320.1, 800/292, 800/293, 800/294

Full Title Citation Front Review Classification Date Reference Claims KIWC Drawn Date

3. Document ID: US 6750379 B2

L8: Entry 3 of 24

File: USPT

Jun 15, 2004

US-PAT-NO: 6750379

DOCUMENT-IDENTIFIER: US 6750379 B2

TITLE: Homologous recombination-mediated transgene alterations in plants

DATE-ISSUED: June 15, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|------------------|-------|----------|---------|
| McElroy; David | Redwood City | CA | | |
| Walters; David A. | North Stonington | CT | | |
| Gilbertson; Larry A. | Chesterfield | MO | | |

US-CL-CURRENT: 800/278, 800/260, 800/275, 800/288, 800/300, 800/306, 800/312,
800/314, 800/317.2, 800/320, 800/320.1, 800/320.2, 800/320.3

Full Title Citation Front Review Classification Date Reference Claims KMC Drawn D

4. Document ID: US 6747189 B1

L8: Entry 4 of 24

File: USPT

Jun 8, 2004

US-PAT-NO: 6747189

DOCUMENT-IDENTIFIER: US 6747189 B1

TITLE: Maize glycine rich protein promoter compositions and methods for use thereof

DATE-ISSUED: June 8, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|------------|-------|----------|---------|
| McElroy; David | Palo Alto | CA | | |
| Orozco, Jr.; Emil M. | West Grove | PA | | |
| Laccetti; Lucille B. | Groton | CT | | |

US-CL-CURRENT: 800/287, 435/419, 435/468, 536/24.1, 800/298, 800/306, 800/312,
800/314, 800/317.2, 800/317.3, 800/317.4, 800/320, 800/320.1, 800/320.2,
800/320.3, 800/322

5. Document ID: US 6635806 B1

L8: Entry 5 of 24

File: USPT

Oct 21, 2003

US-PAT-NO: 6635806

DOCUMENT-IDENTIFIER: US 6635806 B1

** See image for Certificate of Correction **TITLE: Methods and compositions for expression of transgenes in plants

DATE-ISSUED: October 21, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|-------------|-------|----------|---------|
| Kriz; Alan L. | Gales Ferry | CT | | |
| Luethy; Michael H. | Old Mystic | CT | | |
| Voyles; Dale A. | Griswold | CT | | |

US-CL-CURRENT: 800/287, 536/24.1, 800/298, 800/300, 800/301, 800/302, 800/303,
800/312, 800/314, 800/317.2, 800/317.3, 800/317.4, 800/320, 800/320.1, 800/320.2,
800/320.3[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWMC](#) | [Drawn Ds](#) 6. Document ID: US 6583338 B2

L8: Entry 6 of 24

File: USPT

Jun 24, 2003

US-PAT-NO: 6583338

DOCUMENT-IDENTIFIER: US 6583338 B2

TITLE: Maize A3 promoter and methods for use thereof

DATE-ISSUED: June 24, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|---------------|-------|----------|---------|
| McElroy; David | Palo Alto | CA | | |
| Kriz; Alan L. | Gales Ferry | CT | | |
| Orozco, Jr.; Emil M. | West Grove | PA | | |
| Griffor; Matt | N. Stonington | CT | | |

US-CL-CURRENT: 800/278, 435/252.3, 435/320.1, 435/413, 435/414, 435/415, 435/416,
435/417, 435/418, 435/419, 435/468, 435/69.1, 536/23.1, 536/23.6, 536/24.1,
800/260, 800/279, 800/281, 800/284, 800/287, 800/289, 800/290, 800/295, 800/300,
800/312, 800/314, 800/317, 800/320, 800/320.1, 800/320.2, 800/320.3[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KWMC](#) | [Drawn Ds](#)

7. Document ID: US 6580019 B1

L8: Entry 7 of 24

File: USPT

Jun 17, 2003

US-PAT-NO: 6580019

DOCUMENT-IDENTIFIER: US 6580019 B1

TITLE: Non-reciprocal recombination-mediated transgene deletion in transgenic plants

DATE-ISSUED: June 17, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|------------------|-------|----------|---------|
| McElroy; David | Redwood City | CA | | |
| Walters; David A. | North Stonington | CT | | |

US-CL-CURRENT: 800/320

| | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-------|----|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMC | Drawn | De |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-------|----|

 8. Document ID: US 6486382 B1

L8: Entry 8 of 24

File: USPT

Nov 26, 2002

US-PAT-NO: 6486382

DOCUMENT-IDENTIFIER: US 6486382 B1

TITLE: Use of the green fluorescent protein as a screenable marker for plant transformation

DATE-ISSUED: November 26, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------------|-----------------|-------|----------|---------|
| Gordan-Kamm; William | Urbandale | IA | | |
| Pierce; Dorothy A. | Urbandale | IA | | |
| Bowen; Benjamin | Des Moines | IA | | |
| Bidney; Dennis | Urbandale | IA | | |
| Ross; Margit | Johnston | IA | | |
| Scelorange; Christopher | Des Moines | IA | | |
| Miller; Michael D. | Winterset | IA | | |
| Sandahl; Gary | West Des Moines | IA | | |
| Wang; Lijuan | Urbandale | IA | | |

US-CL-CURRENT: 800/278; 435/320.1, 435/419, 435/69.8, 536/23.6, 800/287, 800/298,
800/306, 800/320.1

| | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-------|----|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMC | Drawn | De |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-------|----|

9. Document ID: US 6437217 B1

L8: Entry 9 of 24

File: USPT

Aug 20, 2002

US-PAT-NO: 6437217

DOCUMENT-IDENTIFIER: US 6437217 B1

TITLE: Maize RS81 promoter and methods for use thereof

DATE-ISSUED: August 20, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|------------|-------|----------|---------|
| McElroy; David | Palo Alto | CA | | |
| Orozco, Jr.; Emil M. | West Grove | PA | | |
| Laccetti; Lucille B. | Groton | CT | | |

US-CL-CURRENT: 800/278, 435/419, 435/430, 435/468, 536/23.6, 536/24.1, 800/260,
800/275, 800/279, 800/287, 800/289, 800/295, 800/298, 800/300, 800/301, 800/302,
800/303, 800/306, 800/312, 800/314, 800/317.2, 800/317.3, 800/317.4, 800/320,
800/320.1, 800/322[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Detailed Description](#) | [Claims](#) | [KMC](#) | [Draw. D](#) 10. Document ID: US 6433252 B1

L8: Entry 10 of 24

File: USPT

Aug 13, 2002

US-PAT-NO: 6433252

DOCUMENT-IDENTIFIER: US 6433252 B1

** See image for Certificate of Correction **

TITLE: Maize L3 oleosin promoter

DATE-ISSUED: August 13, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-----------------|------------------|-------|----------|---------|
| Kriz; Alan L. | Gales Ferry | CT | | |
| Griffor; Mathew | North Stonington | CT | | |

US-CL-CURRENT: 800/287, 435/418, 435/419, 435/468, 536/23.4, 536/23.6, 536/23.7,
536/24.1, 800/278, 800/279, 800/312, 800/314, 800/316, 800/317.2, 800/317.3,
800/317.4, 800/320, 800/320.1, 800/320.2, 800/320.3[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Detailed Description](#) | [Claims](#) | [KMC](#) | [Draw. D](#)[Clear](#) | [Generate Collection](#) | [Print](#) | [Fwd Refs](#) | [Bkwd Refs](#) | [Generate OACS](#)[Terms](#)[Documents](#)

agrobacter\$ and L7

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